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SECOND QUARTER 1992
GROUND WATER SAMPLING RESULTS
LIVINGSTON RAIL YARD

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SECOND QUARTER 1992
GROUND WATER SAMPLING RESULTS
LIVINGSTON RAIL YARD

Submitted to:

Montana Department of Health and Environmental Sciences
Cogswell Building
Helena, Montana 59620

Submitted by:

Burlington Northern Railroad Co.
9401 Indian Creek Parkway
Overland Park, KS 66201

Prepared by:

Envirocon, Inc.
P.O. Box 8243
Missoula, Montana 59807

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Montana Department of Health
and Environmental Sciences
Solid and Hazardous Waste Bureau

Submittal Date:

August 7, 1992

ENVIROCON, INC.

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1.0 INTRODUCTION

This report presents the results of ground water samples taken during April, May, and June 1992 at the Livingston Rail Yard (LRY), in Livingston, Montana. Ground water sampling during this period consisted of the April monthly sampling event, the May quarterly sampling event, and the June monthly sampling event.

2.0 RESULTS

All samples were analyzed by Energy Laboratories, Inc., in Billings, Montana. The results for the three sampling events are presented separately below.

2.1 April 1992 Monthly Ground Water Sampling Results

Four ground water samples were collected on May 3, 1992: one each from Monitoring Wells 89-2, LG-10, and 90-3 and the B Street Municipal Well. One trip blank was included for analysis as part of this sampling event as well. The samples from Wells 89-2 and LG-10 and the trip blank were analyzed for purgeable halocarbons by EPA Method 601; the sample from the B Street Well was analyzed for volatile organic compounds (VOCs) by EPA Method 524.2. None of these wells contained any detectable concentrations of VOCs. The sample from Well 90-3 was analyzed for major ions by several EPA methods. Laboratory analytical results and a data validation report for this sampling event are included in Appendix A.

2.2 May 1992 Quarterly Ground Water Sampling Results

The May 1992 quarterly sampling event was conducted from May 26 through June 4. Forty-six water samples were analyzed as part of this event: 39 samples were collected from monitoring and private wells within and around the LRY, six samples were trip blanks, and one sample was an equipment blank. All samples were analyzed for VOCs by EPA Method 524.2 and total petroleum hydrocarbons (TPHs) by EPA Method 418.1, except for the trip and equipment blanks, which were analyzed by EPA Method 524.2 only. In addition to being analyzed for VOCs and TPHs, the sample from Well 92-2 was analyzed for major ions by several EPA methods. Tables 1, 2, 3, 4, and 5 summarize the analytical results for tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (DCE), chlorobenzene, and TPHs. Laboratory analytical results and a data validation report for this sampling event are included in Appendix B.

As shown on Tables 1 through 4, May 1992 was the second quarterly sampling round during which Well 92-1 was sampled for VOCs. This well is located approximately 100 feet downgradient from the Locomotive Shop manways soil vapor extraction (SVE) system. This SVE system has been operating since February 1992 and, as of June 5, 1992, had removed approximately 90 pounds of PCE and TCE. The PCE concentration at this well decreased from 850 parts per billion (ppb) in February 1992 to 560 ppb in May 1992. This PCE concentration decrease may be a result of PCE removal by SVE. It could also represent a seasonal fluctuation in PCE concentrations similar to those noted at other monitoring wells during the past three years.

Monitoring Well HRO-17 is located approximately 75 feet downgradient from the in-line grit chamber SVE system. As of June 5, 1992 this SVE system had removed approximately 726 pounds of chlorinated VOCs from the

Table 1: Tetrachloroethene Analytical Results for Ground-Water Samples Collected During the August 1991, November 1991, February 1992, and May 1992 Sampling Rounds, Livingston Rail Yard, Livingston, Montana.

Chemical Parameter: Tetrachloroethene Units: ug/L

	1991		1992	
Monitoring Well	August Quarterly	November Quarterly	February Quarterly	May Quarterly
1	< 0.5 B	1.4 B	0.86 B	1.1 B
11	< 0.5 B	< 0.5 B	-	< 0.5 B
2	< 0.5 B	< 0.5 B	1.1 B	0.77 B
4	< 0.5 B	< 0.5 B	1.0 B	< 0.5 B
5	< 0.5 B	< 0.5 B	0.52 B	< 0.5 B
6	4.2 B	3.2 B	1.5 B	5.2 B
7	< 0.5 B	< 0.5 B	4.0 B	0.9 B
8	64.0 B	46.0 B	79.0 B	30.0 B
89-1	2.2 B	1.8 B	9.6 B	6.9 B
89-11	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
89-2	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
89-3	410.0 B	280.0 B	180.0 B	260.0 B
89-4	180.0 B	210.0 B	240.0 B	210.0 B
89-6	29.0 B	18.0 B	21.0 B	32.0 B
89-7	25.0 B	18.0 B	20.0 B	18.0 B
89-9	220.0 B	190.0 B	200.0 B	180.0 B
90-3	14.0 B	11.0 B	12.0 B	50.0 B
90-6	-	-	-	< 0.5 B
92-1	-	-	850.0 B	520.0 B
92-2	-	-	-	15.0 B
B STREET	< 0.5 B	-	-	< 0.5 B
HRO-17	110.0 B	-	-	62.0 B
L-87-1	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
L-87-3	94.0 B	130.0 B	140.0 B	140.0 A
L-87-4	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
L-87-7	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
L-87-8	41.0 B	< 0.5 B	16.0 B	11.0 B
L-88-12	290.0 B	130.0 B	120.0 B	127.0 B
L-88-13	64.0 A	22.0 B	19.0 B	26.0 B
LG-10	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
LS-11	45.0 B	8.0 B	38.0 B	75.0 B
LS-6	< 0.5 B	< 0.5 B	1.4 B	< 0.5 B
LS-8	59.0 A	40.0 B	74.0 B	73.0 B
POTW	38.0 B	21.0 B	33.0 B	61.0 B
RAINBOW	72.0 B	-	-	20.0 B

Table 2: Trichloroethene Analytical Results for Ground-Water Samples Collected During the August 1991, November 1991, February 1992, and May 1992 Sampling Rounds, Livingston Rail Yard, Livingston, Montana.

Chemical Parameter: Trichloroethene Units: ug/L

	1991		1992	
Monitoring Well	August Quarterly	November Quarterly	February Quarterly	May Quarterly
1	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
11	< 0.5 B	< 0.5 B	-	< 0.5 B
2	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
4	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
5	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
6	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
7	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
8	4.5 B	1.5 B	3.5 B	1.4 B
89-1	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
89-11	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
89-2	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
89-3	1.6 B	< 0.5 B	0.58 B	0.8 B
89-4	4.3 B	6.0 B	5.9 B	4.1 B
89-6	1.0 B	0.8 B	0.67 B	1.1 B
89-7	1.4 B	1.8 B	1.9 B	3.4 B
89-9	13.0 B	6.9 B	6.1 B	8.3 B
90-3	9.6 B	4.1 B	3.0 B	3.5 B
90-6	-	-	-	< 0.5 B
92-1	-	-	0.76 B	0.8 B
92-2	-	-	-	1.0 B
B STREET	< 0.5 B	-	-	< 0.5 B
HRO-17	28.0 B	-	-	5.3 B
L-87-1	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
L-87-3	11.0 B	10.0 B	12.0 B	14.0 B
L-87-4	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
L-87-7	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
L-87-8	12.0 B	5.9 B	7.0 B	2.6 B
L-88-12	2.8 B	5.6 A	2.7 A	3.4 B
L-88-13	14.0 B	7.7 B	5.0 B	4.9 B
LG-10	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
LS-11	17.0 B	9.3 B	8.8 B	11.0 B
LS-6	< 0.5 B	< 0.5 B	< 0.5 B	< 0.5 B
LS-8	7.4 B	3.7 B	13.0 B	10.0 B
POTW	2.2 B	< 0.5 B	2.3 B	5.0 B
RAINBOW	15.0 B	-	-	3.9 B

Table 3: Cis-1,2-Dichloroethene Analytical Results for Ground-Water Samples Collected During the August 1991, November 1991, February 1992, and May 1992 Sampling Rounds, Livingston Rail Yard, Livingston, Montana.

Chemical Parameter: cis-1,2-Dichloroethene Units: ug/L

	1991		1992	
Monitoring Well	August Quarterly	November Quarterly	February Quarterly	May Quarterly
1	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
11	< 1.0 B	< 1.0 B	-	< 1.0 B
2	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
4	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
5	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
6	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
7	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
8	7.6 B	1.2 B	< 1.0 B	3.7 B
89-1	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-11	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-2	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-3	< 1.0 B	< 1.0 B	< 1.0 B	1.0 B
89-4	1.8 B	16.0 B	13.0 B	4.8 B
89-6	3.1 B	< 1.0 B	< 1.0 B	< 1.0 B
89-7	< 1.0 B	1.8 B	< 1.0 B	< 1.0 B
89-9	1.6 B	1.3 B	< 1.0 B	1.2 B
90-3	33.0 B	7.7 B	3.8 B	25.0 B
90-6	-	-	-	< 1.0 B
92-1	-	-	4.5 B	7.7 B
92-2	-	-	-	5.6 B
B STREET	< 1.0 B	-	-	< 1.0 B
HRO-17	25.0 B	-	-	8.4 B
L-87-1	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-87-3	25.0 B	16.0 B	57.0 B	52.0 B
L-87-4	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-87-7	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-87-8	4.8 B	16.0 B	12.0 B	2.0 B
L-88-12	1.2 B	2.6 A	1.3 B	1.2 B
L-88-13	39.0 A	38.0 B	14.0 B	4.9 B
LG-10	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
LS-11	93.0 B	54.0 B	73.0 B	50.0 B
LS-6	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
LS-8	20.0 B	6.7 B	78.0 B	54.0 B
POTW	5.0 B	< 1.0 B	4.6 B	16.0 B
RAINBOW	74.0 B	-	-	11.0 B

Table 4: Chlorobenzene Analytical Results for Ground-Water Samples Collected During the August 1991, November 1991, February 1992, and May 1992 Sampling Rounds, Livingston Rail Yard, Livingston, Montana.

Chemical Parameter: Chlorobenzene Units: ug/L

	1991		1992	
Monitoring Well	August Quarterly	November Quarterly	February Quarterly	May Quarterly
1	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
11	< 1.0 B	< 1.0 B	-	< 1.0 B
2	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
4	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
5	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
6	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
7	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
8	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-1	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-11	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-2	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-3	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-4	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-6	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-7	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
89-9	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
90-3	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
90-6	-	-	-	< 1.0 B
92-1	-	-	< 1.0 B	< 1.0 B
92-2	-	-	-	< 1.0 B
B STREET	< 1.0 B	-	-	< 1.0 B
HRO-17	2100.0 B	-	-	560.0 B
L-87-1	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-87-3	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-87-4	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-87-7	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-87-8	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-88-12	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
L-88-13	4.0 B	1.2 B	< 1.0 B	< 1.0 B
LG-10	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
LS-11	130.0 B	250.0 B	44.0 B	< 1.0 B
LS-6	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
LS-8	< 1.0 B	2.6 B	28.0 B	5.3 B
POTW	< 1.0 B	< 1.0 B	< 1.0 B	< 1.0 B
RAINBOW	< 1.0 B	-	-	< 1.0 B

Table 5: Total Petroleum Hydrocarbon Analytical Results for Ground-Water Samples Collected During the August 1991, November 1991, February 1992, and May 1992 Sampling Rounds, Livingston Rail Yard, Livingston, Montana.

Chemical Parameter: Total petroleum hydrocarbons Units: mg/L

	1991		1992	
Monitoring Well	August Quarterly	November Quarterly	February Quarterly	May Quarterly
1	< 0.1 B	< 0.1 B	0.4 B	< 0.1 B
11	< 0.1 B	< 0.1 B	-	< 0.1 B
2	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
4	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
5	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
6	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
7	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
8	< 0.1 B	< 0.1 B	2.5 B	< 0.1 B
89-1	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
89-11	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
89-2	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
89-3	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
89-4	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
89-6	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
89-7	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
89-9	< 0.1 B	< 0.1 B	0.3 B	< 0.1 B
90-3	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
90-6	-	-	-	< 0.1 B
92-1	-	-	< 0.1 B	0.4 B
92-2	-	-	-	< 0.1 B
B STREET	< 0.1 B	-	-	< 0.1 B
L-87-1	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
L-87-3	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
L-87-4	< 0.1 B	0.6 B	< 0.1 B	< 0.1 B
L-87-7	0.9 B	1.2 B	0.5 B	1.2 B
L-87-8	1.2 B	8.9 B	2.9 B	116.0 B
L-88-12	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
L-88-13	< 0.1 B	< 0.1 B	0.1 B	< 0.1 B
LG-10	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
LS-11	0.5 B	0.6 B	< 0.1 B	< 0.1 B
LS-6	1.1 B	1.1 B	2.9 B	0.5 B
LS-8	< 0.1 B	< 0.1 B	< 0.1 B	< 0.1 B
POTW	< 0.1 B	0.3 B	< 0.1 B	< 0.1 B
RAINBOW	< 0.1 B	-	-	< 0.1 B

soil around the in-line grit chamber. Approximately one-half of this total mass was chlorobenzene, while the remaining mass was composed of dichlorobenzenes and cis-1,2-DCE. As shown on Table 4, the chlorobenzene concentration at Monitoring Well HRO-17 decreased from 2,100 ppb in August 1991 to 560 ppb in May 1992. This concentration decrease is probably attributable to chlorobenzene removal by SVE.

Monitoring Well 92-2 is located approximately 200 feet east of the Yellowstone River and approximately 30 feet south of the rail line. This well was installed during April 1992 to investigate the potential for transport of VOCs beneath the Yellowstone River. The results for the May 1992 quarterly sampling round show that the sample from Well 92-2 contained 15 ppb of PCE and 1.0 ppb of TCE. These data suggest that either there is at least seasonal underflow beneath the Yellowstone River or that there is a source of these compounds on the east side of the Yellowstone River near Monitoring Well 92-2.

2.3 June 1992 Monthly Ground Water Sampling Results

Three samples were collected on June 29, 1992: one sample was collected from Well LG-10 and an original and a duplicate sample were collected from Well 89-2. One trip blank was included for analysis as part of this sampling event as well. The B-Street Well was not sampled during June because it was shut down for maintenance. All samples were analyzed by EPA Method 524.2. None of the samples contained any detectable VOCs. Laboratory analytical results and a data validation report for this sampling event are included in Appendix C.

APPENDIX A

m 6/5/92

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO: 92-16352
DATE: 06/03/92 crp

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ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN, 140101-1054
Sampled 05/03/92 @ 1345
Submitted 05/05/92
Analyzed 05/07/92

89-2

CONSTITUENT	µg/l
Purgeable Halocarbons (EPA Method 8260)	
Bromodichloromethane	<1.0
Bromoform	<1.0
Bromomethane	<1.0
Carbon tetrachloride	<0.50
Chlorobenzene	<1.0
Chloroethane	<1.0
2-Chloroethylvinyl ether	<1.0
2-Chlorotoluene	<1.0
Chloroform	<1.0
Chloromethane	<1.0
Dibromochloromethane	<1.0
1,2-Dichlorobenzene	<1.0
1,3-Dichlorobenzene	<1.0
1,4-Dichlorobenzene	<0.50
1,1-Dichloroethane	<1.0
1,2-Dichloroethane	<0.50
1,1-Dichloroethene	<0.50
cis-1,2-Dichloroethene	<1.0
trans-1,2-Dichloroethene	<1.0
1,2-Dichloropropane	<1.0
cis-1,3-Dichloropropene	<1.0
trans-1,3-Dichloropropene	<1.0
Methylene chloride	<1.0
1,1,2,2-Tetrachloroethane	<1.0
Tetrachloroethene	<0.50
1,1,1-Trichloroethane	<0.50
1,1,2-Trichloroethane	<1.0
Trichloroethene	<0.50
Trichlorofluoromethane	<1.0
Vinyl chloride	<0.50
Dichlorodifluoromethane	<1.0

NOTE: This analysis is equivalent to EPA Methods 601/8010.

m6/5/92

ENERGY LABORATORIES

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P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO: 92-16353
DATE: 06/03/92 crp

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JUN 04 1992
ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN, 140101-1055
Sampled 05/03/92 @ 1520
Submitted 05/05/92
Analyzed 05/07/92

L6-10

CONSTITUENT	µg/l
Purgeable Halocarbons (EPA Method 8260)	
Bromodichloromethane	<1.0
Bromoform	<1.0
Bromomethane	<1.0
Carbon tetrachloride	<0.50
Chlorobenzene	<1.0
Chloroethane	<1.0
2-Chloroethylvinyl ether	<1.0
2-Chlorotoluene	<1.0
Chloroform	<1.0
Chloromethane	<1.0
Dibromochloromethane	<1.0
1,2-Dichlorobenzene	<1.0
1,3-Dichlorobenzene	<1.0
1,4-Dichlorobenzene	<0.50
1,1-Dichloroethane	<1.0
1,2-Dichloroethane	<0.50
1,1-Dichloroethene	<0.50
cis-1,2-Dichloroethene	<1.0
trans-1,2-Dichloroethene	<1.0
1,2-Dichloropropane	<1.0
cis-1,3-Dichloropropene	<1.0
trans-1,3-Dichloropropene	<1.0
Methylene chloride	<1.0
1,1,2,2-Tetrachloroethane	<1.0
Tetrachloroethene	<0.50
1,1,1-Trichloroethane	<0.50
1,1,2-Trichloroethane	<1.0
Trichloroethene	<0.50
Trichlorofluoromethane	<1.0
Vinyl chloride	<0.50
Dichlorodifluoromethane	<1.0

NOTE: This analysis is equivalent to EPA Methods 601/8010.

m6/5/92

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO:	Envirocon, Inc.	LAB NO.:	92-16354
ADDRESS:	P.O. Box 1154 Livingston, MT 59047	DATE:	06/03/92 crp

RECEIVED
JUN 0 4 1992
ENVIROCON, Inc.
Livingston, Mt

WATER ANALYSIS

Livingston/BN, 140101-1056
Sampled 05/03/92 @ 1540
Submitted 05/05/92
Analyzed 05/07/92

B-Street

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

M 7/30/92

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.
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FAX (406) 252-6069 • 1-800-735-4489

RECEIVED
JUL 30 1992
ENVIROCON, Inc.
Livingston, MT

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-16355
DATE: 06/03/92 crp
REVISED: 07/29/92 crp

WATER ANALYSIS

Livingston/BN, 140101-1057
Sampled 05/03/92 @ 1700
Submitted 05/05/92

90-2

Constituent	Date Analyzed	EPA Method	mg/l (ppm)
Potassium	05/14/92	200.7	6
Sodium	05/14/92	200.7	39
Calcium	05/14/92	200.7	91
Magnesium	05/14/92	200.7	25
Sulfate	05/13/92	300.0	81
Chloride	05/13/92	300.0	16
Carbonate	05/12/92	310.0	0
Bicarbonate	05/12/92	310.0	358
Total Alkalinity as $CaCO_3$	05/12/92	310.0	293
Nitrate plus Nitrite as N	05/08/92	353.2	1.98
Dissolved Metals			
Aluminum	05/22/92	200.7	<0.1
Iron	05/22/92	200.7	<0.03
Manganese	05/22/92	200.7	<0.02
Silica	05/22/92	200.7	22.3

m6/5/92

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO: 92-16351
DATE: 06/03/92 crp

RECEIVED
JUN 04 1992
ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN, 140101-1053
Sampled 05/03/92 @ 1215
Submitted 05/05/92
Analyzed 05/07/92

Trip Blank

CONSTITUENT	µg/l
Purgeable Halocarbons (EPA Method 8260)	
Bromodichloromethane	<1.0
Bromoform	<1.0
Bromomethane	<1.0
Carbon tetrachloride	<0.50
Chlorobenzene	<1.0
Chloroethane	<1.0
2-Chloroethylvinyl ether	<1.0
2-Chlorotoluene	<1.0
Chloroform	4.7
Chloromethane	<1.0
Dibromochloromethane	<1.0
1,2-Dichlorobenzene	<1.0
1,3-Dichlorobenzene	<1.0
1,4-Dichlorobenzene	<0.50
1,1-Dichloroethane	<1.0
1,2-Dichloroethane	<0.50
1,1-Dichloroethene	<0.50
cis-1,2-Dichloroethene	<1.0
trans-1,2-Dichloroethene	<1.0
1,2-Dichloropropane	<1.0
cis-1,3-Dichloropropene	<1.0
trans-1,3-Dichloropropene	<1.0
Methylene chloride	<1.0
1,1,2,2-Tetrachloroethane	<1.0
Tetrachloroethene	<0.50
1,1,1-Trichloroethane	<0.50
1,1,2-Trichloroethane	<1.0
Trichloroethene	<0.50
Trichlorofluoromethane	<1.0
Vinyl chloride	<0.50
Dichlorodifluoromethane	<1.0

NOTE: This analysis is equivalent to EPA Methods 601/8010.

m 6/5/92

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO: Blank
DATE: 06/03/92 crp

RECEIVED
JUN 0 4 1992
ENVIROCON, Inc.
Livingston, MT

WATER ANALYSIS

Method Blank
Analyzed 05/07/92

CONSTITUENT	µg/l
Purgeable Halocarbons (EPA Method 8260)	
Bromodichloromethane	<1.0
Bromoform	<1.0
Bromomethane	<1.0
Carbon tetrachloride	<0.50
Chlorobenzene	<1.0
Chloroethane	<1.0
2-Chloroethylvinyl ether	<1.0
2-Chlorotoluene	<1.0
Chloroform	<1.0
Chloromethane	<1.0
Dibromochloromethane	<1.0
1,2-Dichlorobenzene	<1.0
1,3-Dichlorobenzene	<1.0
1,4-Dichlorobenzene	<0.50
1,1-Dichloroethane	<1.0
1,2-Dichloroethane	<0.50
1,1-Dichloroethene	<0.50
cis-1,2-Dichloroethene	<1.0
trans-1,2-Dichloroethene	<1.0
1,2-Dichloropropane	<1.0
cis-1,3-Dichloropropene	<1.0
trans-1,3-Dichloropropene	<1.0
Methylene chloride	<1.0
1,1,2,2-Tetrachloroethane	<1.0
Tetrachloroethene	<0.50
1,1,1-Trichloroethane	<0.50
1,1,2-Trichloroethane	<1.0
Trichloroethene	<0.50
Trichlorofluoromethane	<1.0
Vinyl chloride	<0.50
Dichlorodifluoromethane	<1.0

NOTE: This analysis is equivalent to EPA Methods 601/8010.

m 6/5/92

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: Blank
DATE: 06/03/92 crp

RECEIVED
JUN 04 1992
ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Method Blank
Analyzed 05/07/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

m4/5/92

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-16351
DATE: 06/03/92 crp

RECEIVED
JUN 0 4 1992
ENVIROCON, Inc.
Livingston, Mt.

QUALITY ASSURANCE SPIKE ANALYSIS

Lab No. 92-16351 was analyzed 06/01/92 and spiked with the following constituents with these results for Envirocon samples:

Parameter	Spike Amount, µg/l	P (%)	Range for P (%)
Chlorobenzene	5.0	114	60-140
1,2-Dichlorobenzene	5.0	134	60-140
cis-1,2-Dichloroethylene	5.0	106	60-140
trans-1,2-Dichloroethylene	5.0	112	60-140
1,2-Dichloropropane	5.0	104	60-140
Ethylbenzene	5.0	115	60-140
Styrene	5.0	125	60-140
Tetrachloroethylene	5.0	120	60-140
Toluene	5.0	127	60-140
o-Xylene	5.0	127	60-140
p-Xylene	5.0	120	60-140

P = Percent recovery measured.

m6/4

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, Mt 59047

LAB NO.: 92-16351 -54
DATE: 06/03/92 crp

RECEIVED
JUN 04 1992
ENVIROCON, Inc.
Livingston, Mt

WATER VOLATILE SURROGATE RECOVERY

10 μg/l Surrogate Standard Spike

	------% recovery------		
SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#
92-16351	100	89	103
92-16352	102	90	110
92-16353	106	86	112
92-16354	105	97	112

	QC LIMITS, % Recovery
S1 (TOL) = Toluene-d8	80-120
S2 (BFB) = Bromofluorobenzene	80-120
S3 (DCE) = 1,2-Dichloroethane-d4	80-120

#Column to be used to flag recovery values with an asterisk.

*Values outside of contract required QC limits.

m6/5/92

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FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO:	Envirocon, Inc.	LAB NO.:	92-16351 -54
ADDRESS:	P.O. Box 1154	DATE:	06/03/92 crp
	Livingston, MT 59047		

RECEIVED
JUN 0 4 1992
ENVIROCON, Inc.
Livingston, Mt.

EPA WATER SUPPLY QUALITY CONTROL SAMPLE

Volatile Organic Contaminants

This EPA Quality Control sample was analyzed 05/07/92 with your lab nos. 92-16351 to 92-16354 with the following results:

Parameter	True Value, μg/l	P (%)	Range for P (%)
1,1-Dichloroethene	5.0	73	60-140
trans-1,2-Dichloroethene	5.0	104	60-140
1,2-Dichloroethane	5.0	102	60-140
Carbon Tetrachloride	5.0	116	60-140
1,2-Dichloropropane	5.0	115	60-140
1,1,2-Trichloroethane	5.0	124	60-140
Tetrachloroethene	5.0	110	60-140
Chlorobenzene	5.0	123	60-140
Ethylbenzene	5.0	90	60-140
1,3-Dichlorobenzene	5.0	101	60-140
1,4-Dichlorobenzene	5.0	108	60-140

P = Percent recovery measured.

m 6/5/92

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.

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RECEIVED
JUN 04 1992
ENVIROCON, Inc.
Livingston, Mt.

June 3, 1992

Envirocon, Inc.
P.O. Box 1154
Livingston, MT 59047

On May 5, 1992 these samples, represented by our laboratory numbers 92-16351 to 92-16355, were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by: ______________________

DATA VALIDATION REPORT FOR GROUNDWATER ANALYSES

LIVINGSTON RAIL YARD, LIVINGSTON, MONTANA

APRIL 1992 MONTHLY SAMPLING ROUND

1.0 INTRODUCTION

Data validation levels have been established for the sample round according to the criteria described in Appendix 1.A of the Remedial Investigation Report. The data validation levels and codes for the Livingston Rail Yard project are based on the U.S. Environmental Protection Agency Region VIII guidance, "Evaluation Criteria for Existing Data from CERCLA Study Areas", Revision 1, January 5, 1985.

Table 1 lists all of the sample station names, sample dates, Envirocon field identification number, laboratory identification number, analytical methods and number of analytes per analytical method for the April 1992 monthly sampling round.

Table 1: Groundwater medium analytical suites for samples collected on 05/03/92

					EPA Analytical Methods					
Sample Station		Date	Envirocon ID#	Lab ID #	200.7	300.0	310.0	353.2	524.2	601
89-2	(PS)	05/03/92	140101-1054	92-16352	0	0	0	0	0	31
90-3	(PS)	05/03/92	140101-1057	92-16355	8	2	1	1	0	0
B STREET	(PS)	05/03/92	140101-1056	92-16354	0	0	0	0	58	0
LG-10	(PS)	05/03/92	140101-1055	92-16353	0	0	0	0	0	31

Explanation

(PS) - Primary Sample
(FD) - Field Duplicate
(LD) - Laboratory Duplicate
(FS) - Field Split to a Second Laboratory

2.0 EVALUATION OF BLANK ANALYSES

One trip blank was analyzed for this sampling round. Chloroform was found in the trip blank at a concentration of 4.7 ug/L. One laboratory blank was analyzed for this sampling round and no contaminants were found. No sample results were affected by contamination found in the blank analytical results. All the blank results are located at the end of this report.

3.0 EVALUATION OF DUPLICATE ANALYSES

No field or laboratory duplicates or second laboratory splits were analyzed for this sample round.

4.0 EVALUATION OF HOLDING TIMES

No holding times were exceeded for this sample round.

5.0 EVALUATION OF MATRIX AND SURROGATE SPIKE RESULTS

The matrix spike recoveries were within recovery limits. Surrogate spike recoveries were within recovery limits. The U.S. Environmental Protection Agency quality control results were within the control limits. The matrix spike, surrogate spike, and U.S EPA quality control results are located at the end of this report.

6.0 Validation Level Assignments

All analytical results are acceptable for quantitative data analysis for this sampling round.

APPENDIX B

m 6/22/9

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LABORATORY REPORT

TO:	Envirocon, Inc.	LAB NO.:	92-19495
ADDRESS:	P.O. Box 1154 Livingston, MT 59047	DATE:	06/17/92 crp

RECEIVED
JUN 18 1992
ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN, 140101-1058
Sampled 05/26/92 @ 1005
Submitted 05/28/92
Analyzed 06/09/92

Trip Blank

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	7.5	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

me 6/22/92

ENERGY LABORATORIES

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FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO:	Envirocon, Inc.	LAB NO.:	92-19496
ADDRESS:	P.O. Box 1154	DATE:	06/17/92 crp
	Livingston, MT 59047		

RECEIVED
JUN 18 1992
ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

L-87-1

Livingston/BN, 140101-1059
Sampled 05/26/92 @ 1500
Submitted 05/28/92
Analyzed 06/09/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

me 6/22/92

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-19497
DATE: 06/17/92 crp

RECEIVED
JUN 18 1992
ENVIROCON, Inc.
Livingston, MT

WATER ANALYSIS

LS-6

Livingston/BN, 140101-1060
Sampled 05/26/92 @ 1540
Submitted 05/28/92
Analyzed 06/09/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	2.5	Isopropylbenzene	1.3
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-19498
DATE: 06/17/92 crp

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ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

L-88-12

Livingston/BN, 140101-1061
Sampled 05/26/92 @ 1700
Submitted 05/28/92
Analyzed 06/09/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	127 *
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	3.4
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	1.2	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

* Value derived from a 25x dilution.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

m 6/22/92

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LABORATORY REPORT

TO:	Envirocon, Inc.	LAB NO.:	92-19499
ADDRESS:	P.O. Box 1154	DATE:	06/17/92 crp
	Livingston, MT 59047		

RECEIVED
JUN 18 1992
ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

L-88-12
dup

Livingston/BN, 140101-1062
Sampled 05/26/92 @ 1710
Submitted 05/28/92
Analyzed 06/09/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	121 *
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	3.4
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	1.2	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

* Value derived from a 25x dilution.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

mc/22649

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ENVIROCON, Inc.
Livingston, Mt.

LABORATORY REPORT

TO: Enviroccon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-19496 -99
DATE: 06/17/92 crp

WATER ANALYSIS

Livingston/BN
Sampled 05/26/92
Submitted 05/28/92
Analyzed 05/28/92

Lab No.	Identification	Total Petroleum Hydrocarbons, mg/l (ppm)
92-19496	140101-1059, Sampled @ 1500 L-87-1	<0.1
92-19497	140101-1060, Sampled @ 1540 LS-6	0.5
92-19498	140101-1061, Sampled @ 1700 L-88-12	<0.1
92-19499	140101-1062, Sampled @ 1710 L-8812 dup	<0.1
Blank	Method Blank	<0.1

NOTE: Analysis done by EPA method 418.1.

m 6/22/9

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Livingston, Mt.

June 17, 1992

Envirocon, Inc.
P.O. Box 1154
Livingston, MT 59047

On May 28, 1992, these samples, represented by our laboratory numbers 92-19495 to 92-19499, were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by: ____________________

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.
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mc 6/29/92

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-19998
DATE: 06/26/92 crp

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JUN 29 1992
ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN 89-7
140101-1064
Sampled 05/28/92 @ 0942
Submitted 05/30/92
Analyzed 06/10/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	18
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	3.4
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

m 6/29/92

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20008
DATE: 06/26/92 crp

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ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN
140101-1065 Trip Blank
Sampled 05/29/92 @ 1045
Submitted 05/30/92
Analyzed 06/11/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<1.0	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

[illegible]

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-19999
DATE: 06/26/92 crp

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ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN 89-3
140101-1066
Sampled 05/29/92 @ 1228
Submitted 05/30/92
Analyzed 06/10/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	260 *
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	0.80
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

* Value derived from a 100x dilution.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

m 6/29/92

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20000
DATE: 06/26/92 crp

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JUN 29 1992
ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN
140101-1067 #4
Sampled 05/29/92 @ 1306
Submitted 05/30/92
Analyzed 06/12/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

m 6/29/92

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20000 dup
DATE: 06/26/92 crp

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JUN 29 1992
ENVIROCON, Inc.
Livingston, Mt.

QUALITY ASSURANCE - DUPLICATE ANALYSIS

Livingston/BN
140101-1067 #4
Sampled 05/29/92 @ 1306
Submitted 05/30/92
Analyzed 06/14/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.
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FAX (406) 252-6069 • 1-800-735-4489

m6/29/92

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20001
DATE: 06/26/92 crp

RECEIVED
JUN 29 1992
ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN
140101-1068 #6
Sampled 05/29/92 @ 1345
Submitted 05/30/92
Analyzed 06/10/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	5.2
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

mc 6-26-92

ENERGY LABORATORIES

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FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20002
DATE: 06/26/92 crp

WATER ANALYSIS

RECEIVED
JUN 29 1992
ENVIROCON, Inc.
Livingston, Mt.

Livingston/BN
140101-1069 #5
Sampled 05/29/92 @ 1425
Submitted 05/30/92
Analyzed 06/10/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

6/29/92

ENERGY LABORATORIES

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20003
DATE: 06/26/92 crp

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JUN 29 1992
ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN
140101-1070 89-11
Sampled 05/29/92 @ 1550
Submitted 05/30/92
Analyzed 06/10/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

m 6/29/92

ENERGY LABORATORIES

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20004
DATE: 06/26/92 crp

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JUN 29 1992
ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN
140101-1071 LS-8
Sampled 05/29/92 @ 1845
Submitted 05/30/92
Analyzed 06/10/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	5.3	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	73 *
,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	10
,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	54 *	Xylenes	<1.0
rans-1,2-Dichloroethene	<1.0		
,2-Dichloropropane	<1.0		

* Value derived from a 10x dilution.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

M 6/26/92

ENERGY LABORATORIES

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20005
DATE: 06/26/92 crp

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JUN 29 1992
ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN
140101-1072 LS-8 dup
Sampled 05/29/92 @ 1850
Submitted 05/30/92
Analyzed 06/10/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	5.6	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	66 *
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	8.1
1,4-Dichlorobenzene	1.1	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	52 *	Xylenes	<1.0
trans-1,2-Dichloroethene	1.0		
1,2-Dichloropropane	<1.0		

* Value derived from a 10x dilution.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.

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m 6/24/92

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20006
DATE: 06/26/92 crp

RECEIVED
JUN 29 1992
ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN
140101-1073 LS-11
Sampled 05/29/92 @ 1927
Submitted 05/30/92
Analyzed 06/10/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	1.1
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	75 *
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	11
1,4-Dichlorobenzene	1.1	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	50 *	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

* Value derived from a 10x dilution.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.

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6/29/92

11

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20007
DATE: 06/26/92 crp

RECEIVED
JUN 29 1992
ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN
140101-1074 #1
Sampled 05/29/92 @ 2015
Submitted 05/30/92
Analyzed 06/11/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	0.90
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<1.0	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

h 6/29/92

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-19998 -20007
DATE: 06/26/92 crp

RECEIVED
JUN 29 1992
ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN
Submitted 05/30/92
Analyzed 06/01/92

Lab No.	Identification		Total Petroleum Hydrocarbons, mg/l (ppm)
92-19998	140101-1064, Sampled 05/28/92 @ 0942	89-7	<0.1
92-19999	140101-1066, Sampled 05/29/92 @ 1228	89-3	<0.1
92-20000	140101-1067, Sampled 05/29/92 @ 1306	#4	<0.1
92-20001	140101-1068, Sampled 05/29/92 @ 1345	#6	<0.1
92-20002	140101-1069, Sampled 05/29/92 @ 1425	#5	<0.1
92-20003	140101-1070, Sampled 05/29/92 @ 1550	89-11	<0.1
92-20004	140101-1071, Sampled 05/29/92 @ 1845	LS-9	<0.1
92-20005	140101-1072, Sampled 05/29/92 @ 1850	LS-9 dup	<0.1
92-20006	140101-1073, Sampled 05/29/92 @ 1927	LS-11	<0.1
92-20007	140101-1074, Sampled 05/29/92 @ 2015	#7	<0.1
Blank	Method Blank		<0.1

NOTE: Analysis done by EPA method 418.1.

M6|29|92

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JUN 29 1992
ENVIROCON, Inc.
Livingston, Mt.

June 26, 1992

Envirocon, Inc.
P.O. Box 1154
Livingston, MT 59047

On May 30, 1992, these samples, represented by our laboratory numbers 92-19998 to 92-20008, were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by:

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.
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m7/1/92

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ENVIROCON, INC.
LIVINGSTON, MT.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20262
DATE: 06/30/92

WATER ANALYSIS

Livingston/BN 89-1
140101-1077
Sampled 05/30/92 @ 1125
Submitted 06/02/92
Analyzed 06/11/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	6.9
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

m 7/1/92

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ENVIROCON, Inc.
Livingston, Mt.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20263
DATE: 06/30/92 rh

WATER ANALYSIS

Dup of 59-1

Livingston/BN
140101-1078
Sampled 05/30/92 @ 1130
Submitted 06/02/92
Analyzed 06/11/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	7.3
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

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ENVIROCON Inc.
Livingston, Mt.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20264
DATE: 06/30/92 rh

WATER ANALYSIS

Livingston/BN
140101-1079
Sampled 05/30/92 @ 1223
Submitted 06/02/92
Analyzed 06/11/92

89-6

Volatile Organic Constituent	μg/l	Volatile Organic Constituent	μg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	32 *
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	1.1
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

* Value derived from a 5x dilution of the sample.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

ENERGY LABORATORIES

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ENVIROCON, Inc.
Livingston, Mt.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-202[illegible]
DATE: 06/30/92

WATER ANALYSIS

Livingston/BN 95-6
140101-1080
Sampled 05/30/92 @ 1315
Submitted 06/02/92
Analyzed 06/11/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

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ENVIROCON, Inc.
Livingston, Mt.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20266
DATE: 06/30/92 rh

WATER ANALYSIS

Livingston/BN
140101-1081 92-1
Sampled 05/30/92 @ 1410
Submitted 06/02/92
Analyzed 06/11/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	520 *
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	0.80
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	7.7	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

* Value derived from a 100x dilution of the sample.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

ENERGY LABORATORIES

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JUL 01 1992
ENVIROCON, Inc.
Livingston, Mt.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20267
DATE: 06/30/92 rh

WATER ANALYSIS

Livingston/BN
140101-1082
Sampled 05/30/92 @ 1540
Submitted 06/02/92
Analyzed 06/11/92

B-Street

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

ENERGY LABORATORIES

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RECEIVED
JUL 0 1 1992
ENVIROCON, Inc.
Livingston, Mt.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20268
DATE: 06/30/92 rh

WATER ANALYSIS

Livingston/BN
140101-1083
Sampled 05/30/92 @ 1828
Submitted 06/02/92
Analyzed 06/11/92

89-2

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.

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FAX (406) 252-6069 • 1-800-735-4

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ENVIROCON, Inc
Livingston, Mt.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20269
DATE: 06/30/92 rh

WATER ANALYSIS

59-4

Livingston/BN
140101-1084
Sampled 05/30/92 @ 1900
Submitted 06/02/92
Analyzed 06/11/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	210 *
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	4.1
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	4.8	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

* Value derived from a 25x dilution of the sample.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

m 7/1/92

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ENVIROCON, Inc.
Livingston, Mt.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20262-69
DATE: 06/30/92 rh

WATER ANALYSIS

Livingston/BN
Sampled 05/30/92
Submitted 06/02/92
Analyzed 06/02/92

Lab No.	Identification		Total Petroleum Hydrocarbons, mg/l (ppm)
92-20262	140101-1077, Sampled @ 1125	X-1-1	<0.1
92-20263	140101-1078, Sampled @ 1130	dup. 89-1	<0.1
92-20264	140101-1079, Sampled @ 1223	89-6	<0.1
92-20265	140101-1080, Sampled @ 1315	90-6	<0.1
92-20266	140101-1081, Sampled @ 1410	13-1	0.4
92-20267	140101-1082, Sampled @ 1540	E-Street	<0.1
92-20268	140101-1083, Sampled @ 1828	89-2	<0.1
92-20269	140101-1084, Sampled @ 1900	89-4	<0.1
Blank	Method Blank		<0.1

Analysis done by EPA Method 418.1.

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ENVIROCON, Inc.
Livingston, Mt.

June 30, 1992

Envirocon, Inc.
P.O. Box 1154
Livingston, MT 59047

On June 2, 1992, these samples, represented by our laboratory numbers 92-20262 to 92-20269 were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by: Deborah A. Grimm

ENERGY LABORATORIES

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m 6/30/92

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20609
DATE: 06/26/92 crp

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ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN
140101-1085
Sampled 06/02/92 @ 1000
Submitted 06/05/92
Analyzed 06/15/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

ENERGY LABORATORIES

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M6/30/92

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20610
DATE: 06/26/92 crp

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ENVIROCON, Livingston

WATER ANALYSIS

Livingston/BN
140101-1086
L-87-4
Sampled 06/02/92 @ 1000
Submitted 06/05/92
Analyzed 06/15/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

ENERGY LABORATORIES

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20610 dup
DATE: 06/26/92 crp

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JUN 30 1992
ENVIROCON Inc.
Livingston, Mt.

QUALITY ASSURANCE - DUPLICATE ANALYSIS

Livingston/BN
140101-1086 L-87-4
Sampled 06/02/92 @ 1000
Submitted 06/05/92
Analyzed 06/18/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

ENERGY LABORATORIES

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me 6/30/92

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20611
DATE: 06/26/92 crp

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ENVIROCON, Inc.
Livin[illegible], Mt.

WATER ANALYSIS

Livingston/BN
140101-1087
Sampled 06/02/92 @ 1130
Submitted 06/05/92
Analyzed 06/15/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	1.1
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

MW/34/4

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ENERGY LABORATORIES, INC.

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FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20612
DATE: 06/26/92 crp

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JUN 30 1992
ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN
140101-1088 #2
Sampled 06/02/92 @ 1300
Submitted 06/05/92
Analyzed 06/15/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	0.77
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

M4/3e4

ENERGY LABORATORIES

ENERGY LABORATORIES. INC.
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LABORATORY REPORT

O: Envirocon, Inc.
DDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20613
DATE: 06/26/92 crp

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[illegible] 1992
ENVIROCON, Inc.
Livingston, Mt

WATER ANALYSIS

Livingston/BN L-89-7
140101-1089
Sampled 06/02/92 @ 1430
Submitted 06/05/92
Analyzed 06/15/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
enzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

ENERGY LABORATORIES

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M6/30/92

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20614
DATE: 06/26/92 crp

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ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN
140101-1090 L-87-8
Sampled 06/02/92 @ 1600
Submitted 06/05/92
Analyzed 06/15/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	1.3	Isopropylbenzene	1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	3.8
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	11
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	2.6
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	3.8
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	2.3
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	2.0	Xylenes	1.2
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

m6/30/92

ENERGY LABORATORIES

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20615
DATE: 06/26/92 crp

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ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN
140101-1091 Rainbow Motel
Sampled 06/02/92 @ 1510
Submitted 06/05/92
Analyzed 06/15/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	20
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	3.9
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	11	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

m6/30/92

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20616
DATE: 06/26/92 crp

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JUN 30 1992
ENVIROCON Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN POTW
140101-1092
Sampled 06/02/92 @ 1500
Submitted 06/05/92
Analyzed 06/15/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	61 *
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	5.0
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	16	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

* Value derived from a 5x dilution.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20610 -16
DATE: 06/26/92 crp

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ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN
Sampled 06/02/92
Submitted 06/05/92
Analyzed 06/05/92

Lab No.	Identification	Total Petroleum Hydrocarbons, mg/l (ppm)
92-20610	140101-1086, Sampled @ 1000 L-87...	<0.1
92-20611	140101-1087, Sampled @ 1130 #1	<0.1
92-20612	140101-1088, Sampled @ 1300 #2	<0.1
92-20613	140101-1089, Sampled @ 1430 L-87-7	1.2
92-20614	140101-1090, Sampled @ 1600 L-87-8	116
92-20615	140101-1091, Sampled @ 1510 Roundhouse [illegible]	<0.1
92-20616	140101-1092, Sampled @ 1500 POTW	<0.1
Blank	Method Blank	<0.1

NOTE: Analysis done by EPA method 418.1.

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ENVIROCON, INC.
Livingston, MT

June 26, 1992

Envirocon, Inc.
P.O. Box 1154
Livingston, MT 59047

On June 5, 1992, these samples, represented by our laboratory numbers 92-20609 to 92-20616, were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by: William J Brown

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.

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m 7/1/92

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ENVIROCON Inc
Livingston, MT

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20621
DATE: 06/29/92 ctp

WATER ANALYSIS

Livingston/BN
140101-1093
Sampled 06/03/92 @ 0800
Submitted 06/05/92
Analyzed 06/16/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.
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m 7/1/92

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20623
DATE: 06/29/92 crp

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WATER ANALYSIS

L-58

Livingston/BN
140101-1094
Sampled 06/03/92 @ 1100
Submitted 06/05/92
Analyzed 06/16/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	26 *
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	4.9
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	4.9	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

* Value derived from a 5x dilution.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

m 7/1/92

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.

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FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20624
DATE: 06/29/92 crp

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Livingston, Mt.

WATER ANALYSIS

Livingston/BN 89-9
140101-1095
Sampled 06/03/92 @ 1206
Submitted 06/05/92
Analyzed 06/16/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	180
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	8.3
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	1.2	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.
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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20625
DATE: 06/29/92 crp

WATER ANALYSIS

Livingston/BN
140101-1096
Sampled 06/03/92 @ 1330
Submitted 06/05/92
Analyzed 06/16/92

L 87-3

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	140 *
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	14
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	52 **	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

* Value derived from a 10x dilution.

** Value derived from a 5x dilution.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20626
DATE: 06/29/92 crp

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WATER ANALYSIS

Livingston/BN
140101-1097
Sampled 06/03/92 @ 1330
Submitted 06/05/92
Analyzed 06/17/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	100 *
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	13
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	45 *	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

* Value derived from a 10x dilution.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20627
DATE: 06/29/92 crp

WATER ANALYSIS

Livingston/BN
140101-1098 #7
Sampled 06/03/92 @ 1405
Submitted 06/05/92
Analyzed 06/17/92

Volatile Organic Constituent	μg/l	Volatile Organic Constituent	μg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	30 *
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	1.4
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	3.7	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

* Value derived from a 10x dilution.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20628
DATE: 06/29/92 cm

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ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN #11
140101-1099
Sampled 06/03/92 @ 1450
Submitted 06/05/92
Analyzed 06/17/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

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LABORATORY REPORT

TO:	Envirocon, Inc.	LAB NO.:	92-20629
ADDRESS:	P.O. Box 1154 Livingston, MT 59047	DATE:	06/29/92 crp

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ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN -10-3
140101-1100
Sampled 06/03/92 @ 1517
Submitted 06/05/92
Analyzed 06/17/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	50 *
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	3.5
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	25 *	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

* Value derived from a 5x dilution.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

ENERGY LABORATORIES

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20623 -29
DATE: 06/29/92 crp

WATER ANALYSIS

Livingston/BN
Sampled 06/03/92
Submitted 06/05/92
Analyzed 06/05/92

Lab No.	Identification		Total Petroleum Hydrocarbons, mg/l (ppm)
92-20623	140101-1094, Sampled @ 1100	L-88-1	<0.1
92-20624	140101-1095, Sampled @ 1206	89-9	<0.1
92-20625	140101-1096, Sampled @ 1330	L-87-2	<0.1
92-20626	140101-1097, Sampled @ 1330	L-87-3 dup	<0.1
92-20627	140101-1098, Sampled @ 1405	#8	<0.1
92-20628	140101-1099, Sampled @ 1450	#11	<0.1
92-20929	140101-1100, Sampled @ 1517	90-3	<0.1
Blank	Method Blank		<0.1

NOTE: Analysis done by EPA method 418.1.

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m 7/1/92

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20622
DATE: 06/29/92 crp

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Livingston, Mt.

WATER ANALYSIS

Livingston/BN
140101-1101
Sampled 06/04/92 @ 0820
Submitted 06/05/92
Analyzed 06/16/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	7.2
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	1.5	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

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ENERGY LABORATORIES, INC.
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Livingston, Mt.

June 29, 1992

Envirocon, Inc.
P.O. Box 1154
Livingston, MT 59047

On June 5, 1992, these samples, represented by our laboratory numbers 92-20621 to 92-20629, were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by: Deborah A. Quinn

ENERGY
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ENERGY LABORATORIES, INC.
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Livingston, Mt.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20617
DATE: 07/07/92

WATER ANALYSIS

Livingston/BN
140101-1102
Sampled 06/04/92 @ 1000
Submitted 06/05/92
Analyzed 06/17/92

Volatile Organic Constituent	μg/l	Volatile Organic Constituent	μg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

ENERGY
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ENERGY LABORATORIES, INC.

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Livingston, Mt.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20618
DATE: 07/07/92 rh

WATER ANALYSIS

Livingston/BN
140101-1103
Sampled 06/04/92 @ 1100
Submitted 06/05/92
Analyzed 06/17/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	15
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	1.0
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	5.6	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20618
DATE: 07/01/92 rh

RECEIVED
JUL 08 1992
ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN
140101-1103
Sampled 06/04/92 @ 1100
Submitted 06/05/92

Constituent	mg/l(ppm)	Date Analyzed
Potassium	4	06/19/92
Sodium	25	06/19/92
Calcium	55	06/19/92
Magnesium	15	06/19/92
Sulfate	41	06/16/92
Chloride	10	06/16/92
Total Alkalinity as $CaCO_3$	184	06/18/92
Nitrate plus Nitrite as N	0.74	06/10/92
Dissolved Metals		
Aluminum	0.1	06/30/92
Iron	0.24	06/30/92
Manganese	<0.02	06/30/92
Silica	22.5	06/30/92

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LABORATORY REPORT

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JUL 08 1992
ENVIROCON, Inc.
Livingston, Mt.

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20619
DATE: 07/07/92 rh

WATER ANALYSIS

Livingston/BN
140101-1104
Sampled 06/04/92 @ 1333
Submitted 06/05/92
Analyzed 06/18/92

Volatile Organic Constituent	μg/l	Volatile Organic Constituent	μg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	560 *	Naphthalene	4.7
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	75 **	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	5.3	Tetrachloroethene	62 **
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	23 **	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	7.7	Trichloroethene	5.3
1,4-Dichlorobenzene	54 **	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	8.4	Xylenes	4.1
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

* Value derived from a 100x dilution of the sample.

** Value derived from a 25x dilution of the sample.

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

ENERGY LABORATORIES

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RECEIVED
JUL 08 1992
ENVIROCON, Inc.
Livingston, Mt.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20617-18
DATE: 07/07/92 rh

WATER ANALYSIS

Livingston/BN
Sampled 06/04/92
Submitted 06/05/92
Analyzed 06/05/92

Lab No.	Identification	Total Petroleum Hydrocarbons, mg/l (ppm)
92-20617	140101-1102, Sampled @ 1000	<0.1
92-20618	140101-1103, Sampled @ 1100	<0.1
Blank	Method Blank	<0.1

Analysis done by EPA Method 418.1.

ENERGY
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ENVIROCON, Inc.
Livingston, Mt.

July 7, 1992

Envirocon, Inc.
P.O. Box 1154
Livingston, MT 59047

On June 5, 1992, these samples, represented by our laboratory numbers 92-20617 to 92-20619 were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by: ______________________

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.
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m 6/22/92

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: Blank
DATE: 06/17/92 crp

RECEIVED
JUN 18 1992
ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Method Blank
Analyzed 06/09/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

6/29/92

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.
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FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO:	Envirocon, Inc.	LAB NO.:	Blank
ADDRESS:	P.O. Box 1154 Livingston, MT 59047	DATE:	06/26/92 crp

RECEIVED
JUN 29 1992
ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Method Blank
Analyzed 06/10/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<1.0	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

ENERGY LABORATORIES

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RECEIVED
JUL 0 1 1992
ENVIROCON, Inc.
Livingston, Mt.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: Blank
DATE: 06/30/92 rh

WATER ANALYSIS

Method Blank
Analyzed 06/11/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

m6/30/92

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.
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FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: Blank
DATE: 06/26/92 crp

RECEIVED
JUN 30 1992
ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Method Blank
Analyzed 06/15/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

m 7/1/92

ENERGY LABORATORIES

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FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: Blank
DATE: 06/29/92 crp

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1992

WATER ANALYSIS

Method Blank
Analyzed 06/16/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

M 7/1/92

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: Blank
DATE: 06/29/92 crp

RECEIVED
JUL 0 1 1992
ENVIROCON, INC.
Livingston, Mt.

WATER ANALYSIS

Method Blank
Analyzed 06/17/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

ENERGY LABORATORIES, INC.
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Livingston, Mt.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: Blank
DATE: 07/07/92 rh

WATER ANALYSIS

Method Blank
Analyzed 06/17/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

ENERGY LABORATORIES

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20001 spi
DATE: 06/26/92 crp

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ENVIROCON, Inc.
Livingston, Mt.

QUALITY ASSURANCE - SPIKED ANALYSIS

Lab No. 92-20001 was analyzed 06/24/92 and spiked with the following constituents with these results for Envirocon samples:

Constituent	Spike Amount, µg/l	P (%)	Range for P (%)
Chlorobenzene	5.0	113	60-140
1,2-Dichlorobenzene	5.0	117	60-140
cis-1,2-Dichloroethylene	5.0	117	60-140
trans-1,2-Dichloroethylene	5.0	139	60-140
1,2-Dichloropropane	5.0	108	60-140
Ethylbenzene	5.0	96	60-140
Styrene	5.0	124	60-140
Tetrachloroethylene	5.0	132	60-140
Toluene	5.0	127	60-140
o-Xylene	5.0	123	60-140
p-Xylene	5.0	94	60-140

P = Percent recovery measured.

m6/30/92

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20611 spi
DATE: 06/26/92 crp

RECEIVED
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ENVIROCON, Inc.
Livingston, Mt.

QUALITY ASSURANCE - SPIKED ANALYSIS

Lab No. 92-20611 was analyzed 06/24/92 and spiked with the following constituents with these results for Envirocon samples:

Constituent	Spike Amount, $\mu g/l$	P (%)	Range for P (%)
Chlorobenzene	5.0	122	60-140
1,2-Dichlorobenzene	5.0	115	60-140
cis-1,2-Dichloroethylene	5.0	120	60-140
trans-1,2-Dichloroethylene	5.0	137	60-140
1,2-Dichloropropane	5.0	118	60-140
Ethylbenzene	5.0	136	60-140
Styrene	5.0	130	60-140
Tetrachloroethylene	5.0	128	60-140
Toluene	5.0	128	60-140
o-Xylene	5.0	120	60-140
p-Xylene	5.0	132	60-140

P = Percent recovery measured.

ENERGY LABORATORIES

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m 7/1/92

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20628 spi
DATE: 06/29/92 cop

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ENVIROCON, Inc.
Livingston, Mt.

QUALITY ASSURANCE - SPIKED ANALYSIS

Lab No. 92-20628 was analyzed 06/26/92 and spiked with the following constituents with these results for Envirocon samples:

Constituent	Spike Amount, µg/l	P (%)	Range for P (%)
Chlorobenzene	5.0	86	60-140
1,2-Dichlorobenzene	5.0	114	60-140
cis-1,2-Dichloroethylene	5.0	102	60-140
trans-1,2-Dichloroethylene	5.0	114	60-140
1,2-Dichloropropane	5.0	90	60-140
Ethylbenzene	5.0	120	60-140
Styrene	5.0	118	60-140
Tetrachloroethylene	5.0	102	60-140
Toluene	5.0	94	60-140
o-Xylene	5.0	117	60-140
p-Xylene	5.0	106	60-140

P = Percent recovery measured.

m6/22/92

ENERGY LABORATORIES

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LABORATORY REPORT

LAB NO.: 92-19495 -99
DATE: 06/17/92 crp

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

RECEIVED
JUN 18 1992
ENVIROCON, Inc.
Livingston, Mt.

WATER VOLATILE SURROGATE RECOVERY

10 μg/l Surrogate Standard Spike

	------% recovery------		
SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#
92-19495	102	104	102
92-19496	96	91	117
92-19497	96	103	109
92-19498	103	95	111
92-19499	95	100	102
Blank 06/09/92	107	99	110

	QC LIMITS, % Recovery
S1 (TOL) = Toluene-d8	80-120
S2 (BFB) = Bromofluorobenzene	80-120
S3 (DCE) = 1,2-Dichloroethane-d4	80-120

#Column to be used to flag recovery values with an asterisk.

*Values outside of contract required QC limits.

[illegible]

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-19998 -20008
DATE: 06/26/92 crp

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ENVIROCON, Inc.
Livingston, Mt.

WATER VOLATILE SURROGATE RECOVERY

10 μg/l Surrogate Standard Spike

	------% recovery------		
SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#
92-19998	96	97	114
92-19999	97	99	115
92-20000	95	94	94
92-20000 dup	87	111	80
92-20001	97	96	112
92-20002	95	98	113
92-20003	101	102	110
92-20004	95	94	105
92-20005	92	97	117
92-20006	103	120	117
92-20007	80	96	82
92-20008	84	93	83
Blank 06/10/92	92	104	86

	QC LIMITS, % Recovery
S1 (TOL) = Toluene-d8	80-120
S2 (BFB) = Bromofluorobenzene	80-120
S3 (DCE) = 1,2-Dichloroethane-d4	80-120

#Column to be used to flag recovery values with an asterisk.

*Values outside of contract required QC limits.

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Livingston, Mt.

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20262-69
DATE: 06/30/92 rh

WATER VOLATILE SURROGATE RECOVERY

10 μg/l Surrogate Standard Spike

	------% Recovery------		
SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#
92-20262	81	110	84
92-20263	84	102	84
92-20264	94	101	112
92-20265	105	96	100
92-20266	81	101	94
92-20267	85	106	90
92-20268	82	110	81
92-20269	81	103	98
Method Blank 06/11/92	103	102	106

	QC LIMITS, % Recovery
S1 (TOL) = Toluene-d8	80-120
S2 (BFB) = Bromofluorobenzene	80-120
S3 (DCE) = 1,2-Dichloroethane-d4	80-120

#Column to be used to flag recovery values with an asterisk.

* Values outside of contract required QC limits.

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20609 -16
DATE: 06/26/92 crp

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ENVIROCON, Inc.
Livingston, Mt.

WATER VOLATILE SURROGATE RECOVERY

10 μg/l Surrogate Standard Spike

	------% recovery------		
SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#
92-20609	100	85	100
92-20610	100	85	100
92-20610 dup	107	96	104
92-20611	99	86	100
92-20612	100	84	100
92-20613	96	95	100
92-20614	97	105	97
92-20615	100	87	100
92-20616	100	87	98
Blank 06/15/92	100	85	100

	QC LIMITS, % Recovery
S1 (TOL) = Toluene-d8	80-120
S2 (BFB) = Bromofluorobenzene	80-120
S3 (DCE) = 1,2-Dichloroethane-d4	80-120

#Column to be used to flag recovery values with an asterisk.

*Values outside of contract required QC limits.

m7/1/92

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20621 -29
DATE: 06/29/92 crp

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WATER VOLATILE SURROGATE RECOVERY

10 µg/l Surrogate Standard Spike

	------% recovery------		
SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#
92-20621	100	87	100
92-20622	100	88	100
92-20623	99	87	96
92-20624	101	86	100
92-20625	101	87	100
92-20626	93	103	92
92-20627	92	85	106
92-20628	94	88	103
92-20629	93	84	105
Blank 06/17/92	96	94	102
Blank 06/16/92	100	89	93

	QC LIMITS, % Recovery
S1 (TOL) = Toluene-d8	80-120
S2 (BFB) = Bromofluorobenzene	80-120
S3 (DCE) = 1,2-Dichloroethane-d4	80-120

#Column to be used to flag recovery values with an asterisk.

*Values outside of contract required QC limits.

ENERGY LABORATORIES

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20617-19
DATE: 07/07/92 rh

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Livingston, Mt.

WATER VOLATILE SURROGATE RECOVERY

10 µg/l Surrogate Standard Spike

	------% Recovery------		
SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#
92-20617	87	97	88
92-20618	95	95	100
92-20619	107	96	99
Method Blank 06/17/92	96	94	102

	QC LIMITS, % Recovery
S1 (TOL) = Toluene-d8	80-120
S2 (BFB) = Bromofluorobenzene	80-120
S3 (DCE) = 1,2-Dichloroethane-d4	80-120

#Column to be used to flag recovery values with an asterisk.

* Values outside of contract required QC limits.

ENERGY LABORATORIES

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-19495 -99
DATE: 06/17/92 crp

RECEIVED
JUN 18 1992
ENVIROCON, Inc.
Livingston, Mt.

EPA WATER SUPPLY QUALITY CONTROL SAMPLE

Volatile Organic Contaminants

This EPA Quality Control sample was analyzed 06/09/92 with your lab nos. 92-19495 to 92-19499 with the following results:

Parameter	True Value, µg/l	P (%)	Range for P (%)
1,1-Dichloroethene	5.0	82	60-140
trans-1,2-Dichloroethene	5.0	96	60-140
1,2-Dichloroethane	5.0	83	60-140
Carbon Tetrachloride	5.0	110	60-140
1,2-Dichloropropane	5.0	102	60-140
1,1,2-Trichloroethane	5.0	97	60-140
Tetrachloroethene	5.0	117	60-140
Chlorobenzene	5.0	106	60-140
Ethylbenzene	5.0	109	60-140
1,3-Dichlorobenzene	5.0	109	60-140
1,4-Dichlorobenzene	5.0	105	60-140

P = Percent recovery measured.

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.
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[illegible]

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-19998 -20008
DATE: 06/26/92 crp

RECEIVED
JUN 29 1992
ENVIROCON, inc.
Livingston, Mt.

EPA WATER SUPPLY QUALITY CONTROL SAMPLE

Volatile Organic Contaminants

This EPA Quality Control sample was analyzed 06/09/92 with your lab nos. 92-19998 to 92-20008 with the following results:

Parameter	True Value, µg/l	P (%)	Range for P (%)
1,1-Dichloroethene	5.0	82	60-140
trans-1,2-Dichloroethene	5.0	96	60-140
1,2-Dichloroethane	5.0	83	60-140
Carbon Tetrachloride	5.0	110	60-140
1,2-Dichloropropane	5.0	102	60-140
1,1,2-Trichloroethane	5.0	97	60-140
Tetrachloroethene	5.0	117	60-140
Chlorobenzene	5.0	106	60-140
Ethylbenzene	5.0	109	60-140
1,3-Dichlorobenzene	5.0	109	60-140
1,4-Dichlorobenzene	5.0	105	60-140

P = Percent recovery measured.

ENERGY LABORATORIES

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ENVIROCON, Inc.
Livingston, Mt.

LABORATORY REPORT

TO:	Envirocon, Inc.	**LAB NO.:**	92-20262-69
ADDRESS:	P.O. Box 1154 Livingston, MT 59047	**DATE:**	06/30/92 rh

EPA WATER SUPPLY QUALITY CONTROL SAMPLE

Volatile Organics Contaminants
Analyzed 06/09/92

This EPA Quality Control sample was analyzed with your lab no.s 92-20262 to 92-20269 with the following results:

Parameter	True Value, µg/l	P (%)	Range for P (%)
1,1-Dichloroethene	5.0	82	60-140
trans-1,2-Dichloroethene	5.0	96	60-140
1,2-Dichloroethane	5.0	83	60-140
Carbon Tetrachloride	5.0	110	60-140
1,2-Dichloropropane	5.0	102	60-140
1,1,2-Trichloroethane	5.0	97	60-140
Tetrachloroethene	5.0	117	60-140
Chlorobenzene	5.0	106	60-140
Ethylbenzene	5.0	109	60-140
1,3-Dichlorobenzene	5.0	109	60-140
1,4-Dichlorobenzene	5.0	105	60-140

P = Percent recovery measured.

m6/30/92

ENERGY LABORATORIES

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LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-20609 -16
DATE: 06/26/92 crp

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ENVIROCON, Inc.
Livingston, Mt.

EPA WATER SUPPLY QUALITY CONTROL SAMPLE

Volatile Organic Contaminants

This EPA Quality Control sample was analyzed 06/17/92 with your lab nos. 92-20609 to 92-20616 with the following results:

Parameter	True Value, µg/l	P (%)	Range for P (%)
1,1-Dichloroethene	5.0	133	60-140
trans-1,2-Dichloroethene	5.0	116	60-140
1,2-Dichloroethane	5.0	98	60-140
Carbon Tetrachloride	5.0	118	60-140
1,2-Dichloropropane	5.0	133	60-140
1,1,2-Trichloroethane	5.0	108	60-140
Tetrachloroethene	5.0	133	60-140
Chlorobenzene	5.0	107	60-140
Ethylbenzene	5.0	110	60-140
1,3-Dichlorobenzene	5.0	113	60-140
1,4-Dichlorobenzene	5.0	118	60-140

P = Percent recovery measured.

m 7/1/92

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.
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LABORATORY REPORT

LAB NO.: 92-20621 -29
DATE: 06/29/92 crp

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

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ENVIROCON, INC.
Livingston, MT

EPA WATER SUPPLY QUALITY CONTROL SAMPLE

Volatile Organic Contaminants

This EPA Quality Control sample was analyzed 06/17/92 with your lab nos. 92-20621 to 92-20629 with the following results:

Parameter	True Value, µg/l	P (%)	Range for P (%)
1,1-Dichloroethene	5.0	133	60-140
trans-1,2-Dichloroethene	5.0	116	60-140
1,2-Dichloroethane	5.0	98	60-140
Carbon Tetrachloride	5.0	118	60-140
1,2-Dichloropropane	5.0	133	60-140
1,1,2-Trichloroethane	5.0	108	60-140
Tetrachloroethene	5.0	133	60-140
Chlorobenzene	5.0	107	60-140
Ethylbenzene	5.0	110	60-140
1,3-Dichlorobenzene	5.0	113	60-140
1,4-Dichlorobenzene	5.0	118	60-140

P = Percent recovery measured.

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.
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LABORATORY REPORT

LAB NO.: 92-20617-19
DATE: 07/07/92 rh

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

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JUL 08 1992
ENVIROCON, Inc.
Livingston, Mt.

EPA WATER SUPPLY QUALITY CONTROL SAMPLE

Volatile Organic Contaminants

This EPA Quality Control sample was analyzed with your Lab No.s 92-20617 to 92-20619 with the following results:

Parameter	True Value, µg/l	P(%)	Range for P(%)
1,1-Dichloroethene	5.0	133	60-140
trans-1,2-Dichloroethene	5.0	116	60-140
1,2-Dichloroethane	5.0	98	60-140
Carbon Tetrachloride	5.0	118	60-140
1,2-Dichloropropane	5.0	133	60-140
1,1,2-Trichloroethane	5.0	108	60-140
Tetrachloroethene	5.0	133	60-140
Chlorobenzene	5.0	107	60-140
Ethylbenzene	5.0	110	60-140
1,3-Dichlorobenzene	5.0	113	60-140
1,4-Dichlorobenzene	5.0	118	60-140

P = Percent recovery measured.

DATA VALIDATION REPORT FOR GROUNDWATER ANALYSES

LIVINGSTON RAIL YARD, LIVINGSTON, MONTANA

MAY 1992 QUARTERLY SAMPLING ROUND

1.0 INTRODUCTION

Data validation levels have been established for the sample round according to the criteria described in Appendix 1.A of the Remedial Investigation Report. The data validation levels and codes for the Livingston Rail Yard project are based on the U.S. Environmental Protection Agency Region VIII guidance, "Evaluation Criteria for Existing Data from CERCLA Study Areas", Revision 1, January 5, 1985.

Table 1 lists all of the sample station names, sample dates, Envirocon field identification number, laboratory identification number, analytical methods and number of analytes per analytical method for the May 1992 quarterly sampling round.

Table 1: Groundwater medium analytical suites for samples collected from 05/26/92 to 06/04/92

Sample Station		Date	Envirocon ID#	Lab ID #	EPA Analytical Methods					
					200.7	300.0	310.0	353.2	418.1	524.2
1	(PS)	06/02/92	140101-1087	92-20611	0	0	0	0	1	58
11	(PS)	06/03/92	140101-1099	92-20628	0	0	0	0	1	58
2	(PS)	06/02/92	140101-1088	92-20612	0	0	0	0	1	58
4	(PS)	05/29/92	140101-1067	92-20000	0	0	0	0	1	58
4	(LD)	05/29/92	140101-1067	92-20000	0	0	0	0	0	58
5	(PS)	05/29/92	140101-1069	92-20002	0	0	0	0	1	58
6	(PS)	05/29/92	140101-1068	92-20001	0	0	0	0	1	58
7	(PS)	05/29/92	140101-1074	92-20007	0	0	0	0	1	58
8	(PS)	06/03/92	140101-1098	92-20627	0	0	0	0	1	58
89-1	(PS)	05/30/92	140101-1077	92-20262	0	0	0	0	1	58
89-1	(FD)	05/30/92	140101-1078	92-20263	0	0	0	0	1	58
89-11	(PS)	05/29/92	140101-1070	92-20003	0	0	0	0	1	58
89-2	(PS)	05/30/92	140101-1083	92-20268	0	0	0	0	1	58
89-3	(PS)	05/29/92	140101-1066	92-19999	0	0	0	0	1	58
89-4	(PS)	05/30/92	140101-1084	92-20269	0	0	0	0	1	58
89-6	(PS)	05/30/92	140101-1079	92-20264	0	0	0	0	1	58
89-7	(PS)	05/28/92	140101-1064	92-19998	0	0	0	0	1	58

Explanation

(PS) - Primary Sample

(FD) - Field Duplicate

(LD) - Laboratory Duplicate

(FS) - Field Split to a Second Laboratory

Table 1 (cont.): Groundwater medium analytical suites for samples collected from 05/26/92 to 06/04/92

Sample Station		Date	Envirocon ID#	Lab ID #	EPA Analytical Methods					
					200.7	300.0	310.0	353.2	418.1	524.2
89-9	(PS)	06/03/92	140101-1095	92-20624	0	0	0	0	1	58
90-3	(PS)	06/03/92	140101-1100	92-20629	0	0	0	0	1	58
90-6	(PS)	05/30/92	140101-1080	92-20265	0	0	0	0	1	58
92-1	(PS)	05/30/92	140101-1081	92-20266	0	0	0	0	1	58
92-2	(PS)	06/04/92	140101-1103	92-20618	8	2	1	1	1	58
B STREET	(PS)	05/30/92	140101-1082	92-20267	0	0	0	0	1	58
HRO-17	(PS)	06/04/92	140101-1104	92-20619	0	0	0	0	0	58
L-87-1	(PS)	05/26/92	140101-1059	92-19496	0	0	0	0	1	58
L-87-3	(PS)	06/03/92	140101-1096	92-20625	0	0	0	0	1	58
L-87-3	(FD)	06/03/92	140101-1097	92-20626	0	0	0	0	1	58
L-87-4	(PS)	06/02/92	140101-1086	92-20610	0	0	0	0	1	58
L-87-4	(LD)	06/02/92	140101-1086	92-20610	0	0	0	0	0	58
L-87-7	(PS)	06/02/92	140101-1089	92-20613	0	0	0	0	1	58
L-87-8	(PS)	06/02/92	140101-1090	92-20614	0	0	0	0	1	58
L-88-12	(PS)	05/26/92	140101-1061	92-19498	0	0	0	0	1	58
L-88-12	(FD)	05/26/92	140101-1062	92-19499	0	0	0	0	1	58
L-88-13	(PS)	06/03/92	140101-1094	92-20623	0	0	0	0	1	58
LG-10	(PS)	06/04/92	140101-1102	92-20617	0	0	0	0	1	58
LS-11	(PS)	05/29/92	140101-1073	92-20006	0	0	0	0	1	58
LS-6	(PS)	05/26/92	140101-1060	92-19497	0	0	0	0	1	58
LS-8	(PS)	05/29/92	140101-1071	92-20004	0	0	0	0	1	58
LS-8	(FD)	05/29/92	140101-1072	92-20005	0	0	0	0	1	58
POTW	(PS)	06/02/92	140101-1092	92-20616	0	0	0	0	1	58
RAINBOW	(PS)	06/02/92	140101-1091	92-20615	0	0	0	0	1	58

Explanation

(PS) - Primary Sample
(FD) - Field Duplicate
(LD) - Laboratory Duplicate
(FS) - Field Split to a Second Laboratory

2.0 EVALUATION OF BLANK ANALYSES

Four trip blanks were analyzed for this sampling round. Chloroform was found in one trip blank at a concentration of 7.5 ug/L. p-Isopropyltoluene was found in one trip blank at a concentration of 1.0 ug/L. One equipment blank was analyzed for this sampling round. Chloroform was found in one equipment blank at a concentration of 1.5 ug/L. Methylene chloride was found in one equipment blank at a concentration of 7.2 ug/L. Seven laboratory blanks were analyzed for this sampling round and no contaminants were found. Table 2 lists the sample results for the May, 1992 quarterly sampling round which were affected by blank contamination. All the blank results are located at the end of this report.

Table 2: List of sample results which are affected by contamination found in blank samples.

Sample Station		Chemical Name	Value	Blank Value	Units	Blank Type
RAINBOW	(PS)	Chloroform	1.0000	7.5	ug/L	Trip
L-87-8	(PS)	p-Isopropyltoluene	3.8000	1.0	ug/L	Trip
LS-11	(PS)	p-Isopropyltoluene	1.1000	1.0	ug/L	Trip

Explanation
(PS) - Primary Sample
(FD) - Field Duplicate
(LD) - Laboratory Duplicate
(FS) - Field Split to a Second Laboratory

3.0 EVALUATION OF DUPLICATE ANALYSES

Four field duplicates were collected during this sampling round. Field duplicates were collected at wells 89-1, L-87-3, L-88-12 and LS-8. Two laboratory duplicates were analyzed for this sampling round. Laboratory duplicates were analyzed for the primary sample of well 4 and the primary sample of well L-87-4. No second laboratory splits were collected for this sample round. Table 3 lists the sample results for the May, 1992 quarterly sampling round which failed the duplicate comparison criteria.

Table 3: List of sample results which exceeded the relative percent difference value of 30%.

Sample Station	Chemical Name	Value	Dupl. Value	RPD %	Dupl. Type
L-87-3	Tetrachloroethene	140.0	100.0	33.3	Field
LS-8	1,4-Dichlorobenzene	< 0.5	1.1	75.0	Field

4.0 EVALUATION OF HOLDING TIMES

Table 4 lists the sample stations and analytical methods for the May 1992 quarterly sampling round which exceeded the laboratory holding time criteria.

Table 4: List of sample stations and analytical methods which exceeded laboratory holding times.

Sample Station	Sample Type	Analytical Method	Holding Time	Reason
4	Laboratory Duplicate	EPA 524.2	16	Analysis Date
L-87-4	Laboratory Duplicate	EPA 524.2	16	Analysis Date

5.0 EVALUATION OF MATRIX AND SURROGATE SPIKE RESULTS

The matrix spike recoveries were within recovery limits. Surrogate spike recoveries were within recovery limits. The U.S. Environmental Protection Agency quality control results were within the control limits. The matrix spike, surrogate spike, and U.S. EPA quality control results are located at the end of this report.

6.0 Validation Level Assignments

Analytical results are acceptable for quantitative data analysis for this sampling round with the exception of the sample results listed in Table 5 (qualitative results).

Table 5: List of sample results which have been validated as qualitative.

Sample Station	Sample Type	Parameter	Reason
L-87-3	Primary Sample	Tetrachloroethene	Duplicate Comparison
L-87-3	Field Duplicate	Tetrachloroethene	Duplicate Comparison
LS-8	Primary Sample	1,4-Dichlorobenzene	Duplicate Comparison
LS-8	Field Duplicate	1,4-Dichlorobenzene	Duplicate Comparison
4	Laboratory Duplicate	EPA 524.2	Holding Time
L-87-4	Laboratory Duplicate	EPA 524.2	Holding Time

APPENDIX C

7/16/92

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-25655
DATE: 07/15/92 crp

RECEIVED
JUL 16 1992
ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN, 140101-1107
Sampled 06/29/92 @ 1350
Submitted 06/30/92
Analyzed 07/13/92

89-2

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

[illegible]

ENERGY LABORATORIES

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FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO:	Envirocon, Inc.	LAB NO.:	92-25656
ADDRESS:	P.O. Box 1154 Livingston, MT 59047	DATE:	07/15/92 crp

RECEIVED
JUL 16 1992
ENVIROCON Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN, 140101-1108
Sampled 06/29/92 @ 1355
Submitted 06/30/92
Analyzed 07/13/92

89
dup

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.

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FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-25657
DATE: 07/15/92 crp

RECEIVED
JUL 1 5 1992
ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN, 140101-1109
Sampled 06/29/92 @ 1448
Submitted 06/30/92
Analyzed 07/13/92

LS-10

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

m 7/16/92

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.
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FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-25654
DATE: 07/15/92 crp

RECEIVED
JUL 16 1992
ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Livingston/BN, 140101-1106
Sampled 06/29/92 @ 1040
Submitted 06/30/92
Analyzed 07/13/92

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

W 7/16/92

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: Blank
DATE: 07/15/92 crp

RECEIVED
JUL 1 [illegible] 1992
ENVIROCON, Inc.
Livingston, Mt.

WATER ANALYSIS

Method Blank
Analyzed 07/13/92

Volatile Organic Constituent	μg/l	Volatile Organic Constituent	μg/l
Benzene	<0.50	1,3-Dichloropropane	<1.0
Bromobenzene	<1.0	2,2-Dichloropropane	<1.0
Bromochloromethane	<1.0	1,1-Dichloropropene	<1.0
Bromodichloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
Bromoform	<1.0	trans-1,3-Dichloropropene	<1.0
Bromomethane	<1.0	Ethylbenzene	<1.0
n-Butylbenzene	<1.0	Hexachlorobutadiene	<1.0
sec-Butylbenzene	<1.0	Isopropylbenzene	<1.0
tert-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
Carbon tetrachloride	<0.50	Methylene chloride	<1.0
Chlorobenzene	<1.0	Naphthalene	<1.0
Chloroethane	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	Styrene	<1.0
Chloromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
2-Chlorotoluene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
4-Chlorotoluene	<1.0	Tetrachloroethene	<0.50
1,2-Dibromo-3-chloropropane	<1.0	Toluene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Dibromomethane	<1.0	1,1,1-Trichloroethane	<0.50
1,2-Dichlorobenzene	<1.0	1,1,2-Trichloroethane	<1.0
1,3-Dichlorobenzene	<1.0	Trichloroethene	<0.50
1,4-Dichlorobenzene	<0.50	Trichlorofluoromethane	<1.0
Dichlorodifluoromethane	<1.0	1,2,3-Trichloropropane	<1.0
1,1-Dichloroethane	<1.0	1,2,4-Trimethylbenzene	<1.0
1,2-Dichloroethane	<0.50	1,3,5-Trimethylbenzene	<1.0
1,1-Dichloroethene	<0.50	Vinyl chloride	<0.50
cis-1,2-Dichloroethene	<1.0	Xylenes	<1.0
trans-1,2-Dichloroethene	<1.0		
1,2-Dichloropropane	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2.

m 7/16/92

ENERGY LABORATORIES

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FAX (406) 252-6069 • 1-800-735-4489

LABORATORY REPORT

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

LAB NO.: 92-25654 -57
DATE: 07/15/92 crp

RECEIVED
JUL 16 1992
ENVIROCON, Inc.
Livingston, Mt.

WATER VOLATILE SURROGATE RECOVERY

10 µg/l Surrogate Standard Spike

	------% recovery------		
SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#
92-25654	101	95	106
92-25655	100	95	103
92-25656	103	95	105
92-25657	104	98	101
Method Blank	97	101	98

	QC LIMITS, % Recovery
S1 (TOL) = Toluene-d8	80-120
S2 (BFB) = Bromofluorobenzene	80-120
S3 (DCE) = 1,2-Dichloroethane-d4	80-120

#Column to be used to flag recovery values with an asterisk.

*Values outside of contract required QC limits.

[illegible]

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LABORATORY REPORT

LAB NO.: 92-25654 -57
DATE: 07/15/92 crp

TO: Envirocon, Inc.
ADDRESS: P.O. Box 1154
Livingston, MT 59047

RECEIVED
JUL 16 1992
ENVIROCON, Inc.
Livingston, Mt.

EPA WATER SUPPLY QUALITY CONTROL SAMPLE

Volatile Organic Contaminants

This EPA Quality Control sample was analyzed 07/13/92 with your lab nos. 92-25654 to 92-25657 with the following results:

Parameter	True Value, µg/l	P (%)	Range for P (%)
1,1-Dichloroethene	5.0	120	60-140
trans-1,2-Dichloroethene	5.0	90	60-140
1,2-Dichloroethane	5.0	76	60-140
Carbon Tetrachloride	5.0	95	60-140
1,2-Dichloropropane	5.0	75	60-140
1,1,2-Trichloroethane	5.0	62	60-140
Tetrachloroethene	5.0	81	60-140
Chlorobenzene	5.0	73	60-140
Ethylbenzene	5.0	130	60-140
1,3-Dichlorobenzene	5.0	119	60-140
1,4-Dichlorobenzene	5.0	123	60-140

P = Percent recovery measured.

w 7/6/9

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JUL 16 1992
ENVIROCON, Inc.
Livingston, Mt.

July 15, 1992

Envirocon, Inc.
P.O. Box 1154
Livingston, MT 59047

On June 30, 1992, these samples, represented by our laboratory numbers 92-25654 to 92-25657, were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by:

DATA VALIDATION REPORT FOR GROUNDWATER ANALYSES
LIVINGSTON RAIL YARD, LIVINGSTON, MONTANA
JUNE 1992 MONTHLY SAMPLING ROUND

1.0 INTRODUCTION

Data validation levels have been established for the sample round according to the criteria described in Appendix 1.A of the Remedial Investigation Report. The data validation levels and codes for the Livingston Rail Yard project are based on the U.S. Environmental Protection Agency Region VIII guidance, "Evaluation Criteria for Existing Data from CERCLA Study Areas", Revision 1, January 5, 1985.

Table 1 lists all of the sample station names, sample dates, Envirocon field identification number, laboratory identification number, analytical methods and number of analytes per analytical method for the June 1992 monthly sampling round.

Table 1: Groundwater medium analytical suites for samples collected on 06/29/92

Sample Station		Date	Envirocon ID#	Lab ID #	EPA 524.2
89-2	(PS)	06/29/92	140101-1107	92-25655	58
89-2	(FD)	06/29/92	140101-1108	92-25656	58
LG-10	(PS)	06/29/92	140101-1109	92-25657	58

Explanation

(PS) - Primary Sample
(FD) - Field Duplicate
(LD) - Laboratory Duplicate
(FS) - Field Split to a Second Laboratory

2.0 EVALUATION OF BLANK ANALYSES

One trip blank was analyzed for this sampling round and no contaminants were found. One laboratory blank was analyzed for this sampling round and no contaminants were found. All the blank results are located at the end of this report.

3.0 EVALUATION OF DUPLICATE ANALYSES

One field duplicate was collected during this sampling round. A field duplicate was collected at well 89-2. No laboratory duplicates were analyzed for this sample round. No second laboratory splits were collected for this sample round. No relative percent difference calculations were greater than 30% for this sampling round.

4.0 EVALUATION OF HOLDING TIMES

No holding times were exceeded for this sample round.

5.0 EVALUATION OF MATRIX AND SURROGATE SPIKE RESULTS

The surrogate spike recoveries were within recovery limits. The U.S. Environmental Protection Agency quality control results were within the control limits. The surrogate spike and U.S. EPA quality control results are located at the end of this report.

6.0 Validation Level Assignments

All analytical results are acceptable for quantitative data analysis for this sampling round.